



DEPARTMENT OF THE AIR FORCE
59TH MEDICAL WING (AETC)
JOINT BASE SAN ANTONIO - LACKLAND TEXAS

27 FEB 2017

MEMORANDUM FOR DOR

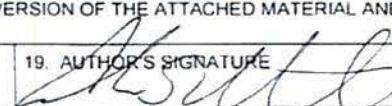
ATTN: CAPT ANDREW S. MURTHA

FROM: 59 MDW/SGVU

SUBJECT: Professional Presentation Approval

1. Your paper, entitled An analysis of References Used in Orthopedic Self-Assessment Exams presented at/published to 58TH Annual Meeting of the Society of Military Orthopedic Surgeons, CA, 12-16 Dec 2016 in accordance with MDWI 41-108, has been approved and assigned local file #16386.
2. Pertinent biographic information (name of author(s), title, etc.) has been entered into our computer file. Please advise us (by phone or mail) that your presentation was given. At that time, we will need the date (month, day and year) along with the location of your presentation. It is important to update this information so that we can provide quality support for you, your department, and the Medical Center commander. This information is used to document the scholarly activities of our professional staff and students, which is an essential component of Wilford Hall Ambulatory Surgical Center (WHASC) internship and residency programs.
3. Please know that if you are a Graduate Health Sciences Education student and your department has told you they cannot fund your publication, the 59th Clinical Research Division may pay for your basic journal publishing charges (to include costs for tables and black and white photos). We cannot pay for reprints. If you are 59 MDW staff member, we can forward your request for funds to the designated wing POC.
4. Congratulations, and thank you for your efforts and time. Your contributions are vital to the medical mission. We look forward to assisting you in your future publication/presentation efforts.

LINDA STEEL-GOODWIN, Col, USAF, BSC
Director, Clinical Investigations & Research Support

| PROCESSING OF PROFESSIONAL MEDICAL RESEARCH/TECHNICAL PUBLICATIONS/PRESENTATIONS | | | |
|---|--|---|--------------------------------|
| 1. TO: CLINICAL RESEARCH | 2. FROM: (Author's Name, Rank, Grade, Office Symbol) | 3. GME/GHSE STUDENT: | 4. PROTOCOL NUMBER: |
| | Andrew S. Murtha, Capt, O3, DOR | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO |
| 5. PROTOCOL TITLE: (NOTE: For each new release of medical research or technical information as a publication/presentation, a new 59 MDW Form 3039 must be submitted for review and approval.) | | | |
| 6. TITLE OF MATERIAL TO BE PUBLISHED OR PRESENTED: An Analysis of References Used in Orthopaedic Self-Assessment Exams | | | |
| 7. FUNDING RECEIVED FOR THIS STUDY? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO FUNDING SOURCE: | | | |
| 8. DO YOU NEED FUNDING SUPPORT FOR PUBLICATION PURPOSES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | | |
| 9. IS THIS MATERIAL CLASSIFIED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | | |
| 10. IS THIS MATERIAL SUBJECT TO ANY LEGAL RESTRICTIONS FOR PUBLICATION OR PRESENTATION THROUGH A COLLABORATIVE RESEARCH AND DEVELOPMENT AGREEMENT (CRADA), MATERIAL TRANSFER AGREEMENT (MTA), INTELLECTUAL PROPERTY RIGHTS AGREEMENT ETC.? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO NOTE: If the answer is YES then attach a copy of the Agreement to the Publications/Presentations Request Form. | | | |
| 11. MATERIAL IS FOR: <input checked="" type="checkbox"/> DOMESTIC RELEASE <input type="checkbox"/> FOREIGN RELEASE CHECK APPROPRIATE BOX OR BOXES FOR APPROVAL WITH THIS REQUEST. ATTACH COPY OF MATERIAL TO BE PUBLISHED/PRESENTED. | | | |
| <input type="checkbox"/> 11a. PUBLICATION/JOURNAL (List intended publication/journal.) | | | |
| <input type="checkbox"/> 11b. PUBLISHED ABSTRACT (List intended journal.) | | | |
| <input type="checkbox"/> 11c. POSTER (To be demonstrated at meeting: name of meeting, city, state, and date of meeting.) | | | |
| <input checked="" type="checkbox"/> 11d. PLATFORM PRESENTATION (At civilian institutions: name of meeting, state, and date of meeting.) 58th Annual Meeting of the Society of Military Orthopaedic Surgeons, CA, 12-16 Dec | | | |
| <input type="checkbox"/> 11e. OTHER (Describe: name of meeting, city, state, and date of meeting.) | | | |
| 12. HAVE YOUR ATTACHED RESEARCH/TECHNICAL MATERIALS BEEN PREVIOUSLY APPROVED TO BE PUBLISHED/PRESENTED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO ASSIGNED FILE # _____ DATE _____ | | | |
| 13. EXPECTED DATE WHEN YOU WILL NEED THE CRD TO SUBMIT YOUR CLEARED PRESENTATION/PUBLICATION TO DTIC NOTE: All publications/presentations are required to be placed in the Defense Technical Information Center (DTIC) | | | |
| DATE December 01, 2016 | | | |
| 14. 59 MDW PRIMARY POINT OF CONTACT (Last Name, First Name, M.I., email) | | 15. DUTY PHONE/PAGER NUMBER 210-916-3410 | |
| Murtha, Andrew, S., andrew.s.murtha2.mil@mail.mil | | | |
| 16. AUTHORSHIP AND CO-AUTHOR(S) List in the order they will appear in the manuscript. | | | |
| LAST NAME, FIRST NAME AND M.I. | GRADE/RANK | SQUADRON/GROUP/OFFICE SYMBOL | INSTITUTION (If not 59 MDW) |
| a. Primary/Corresponding Author Sean P. Moreze | Capt/03 | DOR | 959 CSFS |
| b. Andrew S. Murtha | Capt/03 | DOR | 959 CSFS |
| c. Jessica C. Rixia | MAT/04 | | |
| d. Chad A. Krueger | MAT/04 | | |
| e. | | | |
| 17. IS A 502 ISG/JAC ETHICS REVIEW REQUIRED (JER DOD 5500.07-R)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | | |
| I CERTIFY ANY HUMAN OR ANIMAL RESEARCH RELATED STUDIES WERE APPROVED AND PERFORMED IN STRICT ACCORDANCE WITH 32 CFR 219, AFMAN 40-401_IP, AND 59 MDWI 41-108. I HAVE READ THE FINAL VERSION OF THE ATTACHED MATERIAL AND CERTIFY THAT IT IS AN ACCURATE MANUSCRIPT FOR PUBLICATION AND/OR PRESENTATION. | | | |
| 18. AUTHOR'S PRINTED NAME, RANK, GRADE Andrew S. Murtha, Capt, O3 | 19. AUTHOR'S SIGNATURE  | | 20. DATE September 22, 2016 |
| 21. APPROVING AUTHORITY'S PRINTED NAME, RANK, TITLE PATRICK M. OSBORN (Lt Col) USAF | 22. APPROVING AUTHORITY'S SIGNATURE  | | 23. DATE 2016/10/31 |

PROCESSING OF PROFESSIONAL MEDICAL RESEARCH/TECHNICAL PUBLICATIONS/PRESENTATIONS

1st ENDORSEMENT (59 MDW/SGVU Use Only)

| | | |
|--|--------------------------------|--|
| TO: Clinical Research Division 59 MDW/CRD Contact 292-7141 for email instructions. | 24. DATE RECEIVED 11/3/2016 | 25. ASSIGNED PROCESSING REQUEST FILE NUMBER 16386 |
|--|--------------------------------|--|

| | |
|----------------------------------|-----------------------------------|
| 26. DATE REVIEWED 24 Feb 2017 | 27. DATE FORWARDED TO 502 ISG/JAC |
|----------------------------------|-----------------------------------|

28. AUTHOR CONTACTED FOR RECOMMENDED OR NECESSARY CHANGES: NO YES If yes, give date. _____ N/A

29. COMMENTS APPROVED DISAPPROVED

Analysis of publicly available data, approved

30. PRINTED NAME, RANK/GRADE, TITLE OF REVIEWER

Kevin Kupferer/GS13/Hum Res Subj Prot Expert

31. REVIEWER SIGNATURE

KUPFERER.KEVIN.

32. DATE

24 Feb 2017

2nd ENDORSEMENT (502 ISG/JAC Use Only)

33. DATE RECEIVED

R.1086667/270

Digitally signed by
KUPFERER.KEVIN R.1086667/270
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI,
ou=USAF, cn=KUPFERER.KEVIN.R.1086667/270
Date: 2017/02/24 14:19:31 -06'00'

34. DATE FORWARDED TO 59 MDW/PA

35. COMMENTS APPROVED (In compliance with security and policy review directives.) DISAPPROVED

36. PRINTED NAME, RANK/GRADE, TITLE OF REVIEWER

37. REVIEWER SIGNATURE

38. DATE

3rd ENDORSEMENT (59 MDW/PA Use Only)

39. DATE RECEIVED

40. DATE FORWARDED TO 59 MDW/SGVU

27 FEB 2017

41. COMMENTS APPROVED (In compliance with security and policy review directives.) DISAPPROVED

PLEASE ADD A DISCLAIMER TO YOUR PRESENTATION. ONCE A DISCLAIMER IS ADDED IT IS APPROVED FOR BY 59 MDW/PA.

42. PRINTED NAME, RANK/GRADE, TITLE OF REVIEWER

JERILYN QUINTANILLA, SSGT, 59 MDW/PA

43. REVIEWER SIGNATURE

44. DATE

27 FEB 2017

4th ENDORSEMENT (59 MDW/SGVU Use Only)

45. DATE RECEIVED

46. SENIOR AUTHOR NOTIFIED BY PHONE OF APPROVAL OR DISAPPROVAL

YES NO COULD NOT BE REACHED LEFT MESSAGE

47. COMMENTS APPROVED DISAPPROVED

48. PRINTED NAME, RANK/GRADE, TITLE OF REVIEWER

49. REVIEWER SIGNATURE

50. DATE

Analysis of References Used in Orthopaedic Self-Assessment Exams

Sean P. Moroze, MD¹; Andrew S. Murtha, MD¹; Jessica C. Rivera, MD¹; Chad A. Krueger, MD²

Abstract:

8 **Objective:** Orthopaedic surgery board certification and maintenance of certification requires
9 success on standardized tests and ongoing continuing medical education. Previous work has
10 identified the most commonly cited resources for preparation for the Orthopaedic In-Training
11 Examination (OITE) administered during residency. This study aims to identify the most
12 impactful resources for preparation for and maintenance of board certification.

13 **Design:** Questions included in the Orthopaedic Self-Assessment Exams (SAE) from 2009-2014
14 were examined with the type and age of reference materials cited for each question.

15 **Results:** 2107 questions reviewed, with 4,479 total citations. There were 289 journals and 95
16 textbooks identified. *The Journal of Bone and Joint Surgery* (15% of citations), *Journal of the
17 American Academy of Orthopaedic Surgeons* (11%), and *Clinical Orthopaedic and Related
18 Research* (6%) were the most frequently cited journals. Orthopaedic Knowledge Update (OKU),
19 Orthopaedic Basic Science, and AAOS Comprehensive Review were the most frequently cited
20 texts. Additionally the average age of the article cited was 8.2 years.

21 **Conclusions:** These data demonstrate that certain orthopaedic journals are consistently the most
22 commonly cited references for SAEs and could also be expected to be the highest yield references
23 for knowledge acquisition and exam preparation